

FIGURE 1

NORMAL/LFA-1 DEFICIENT CELL ADHESION

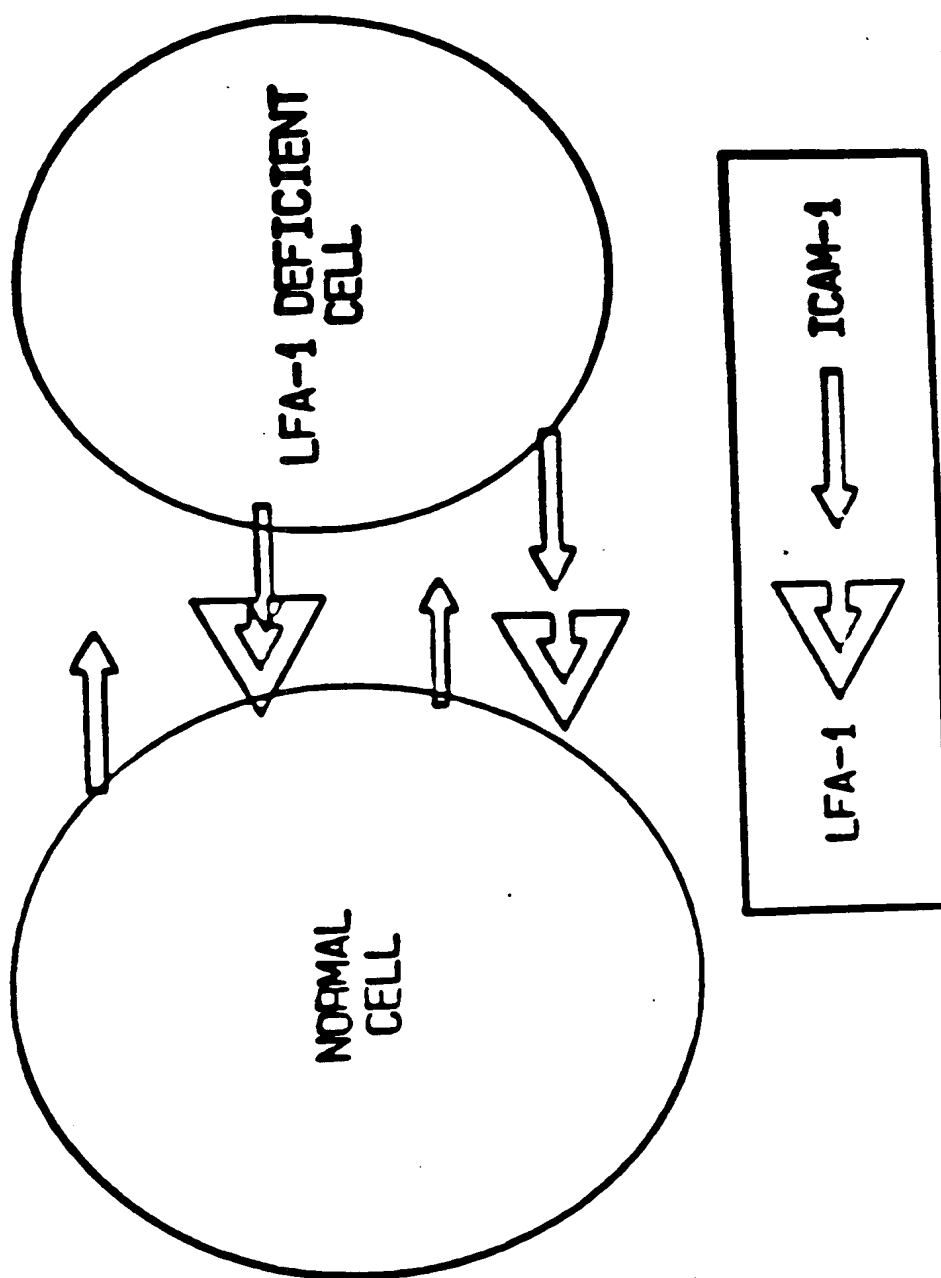
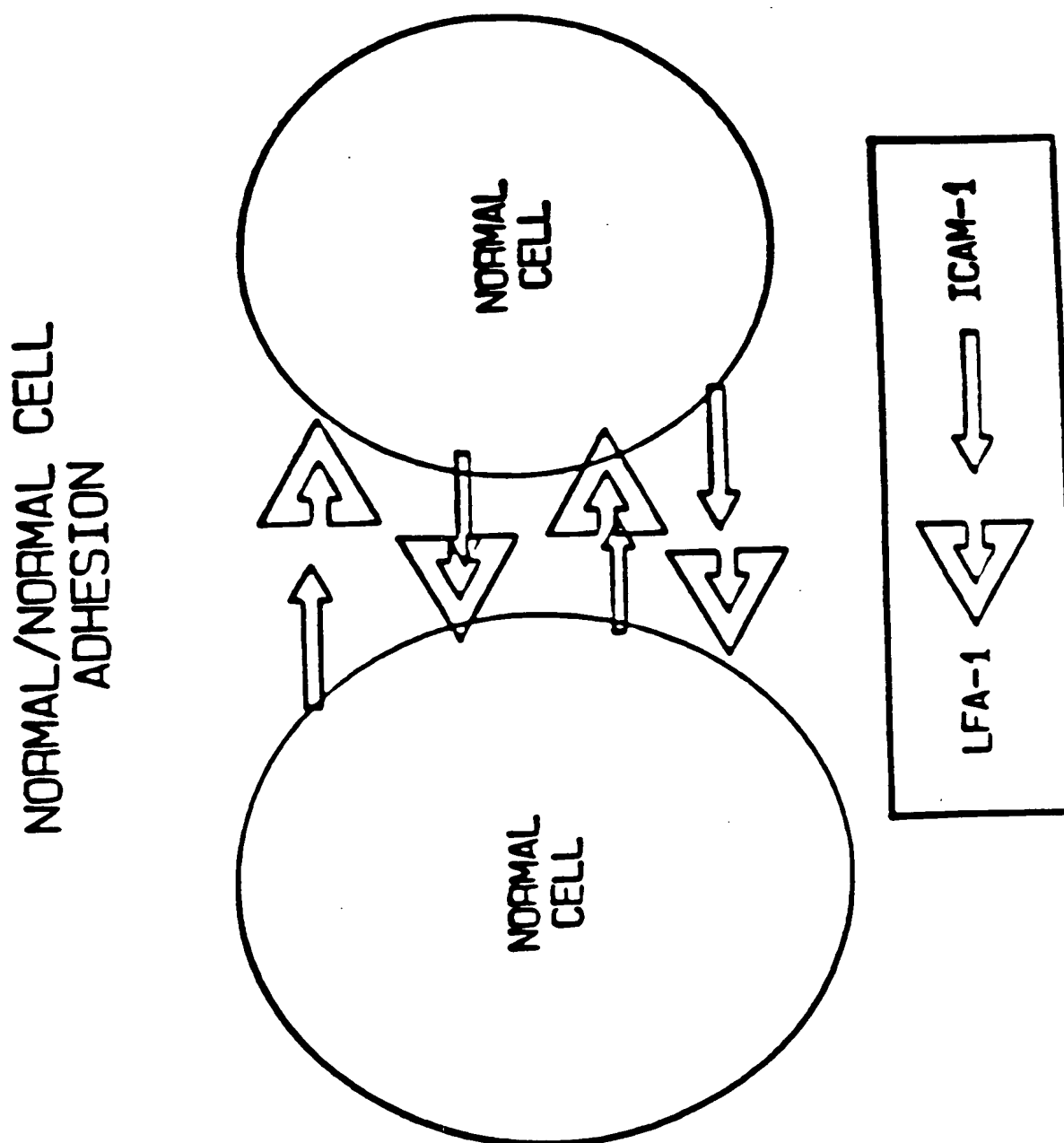


FIGURE 2



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FIGURE 3

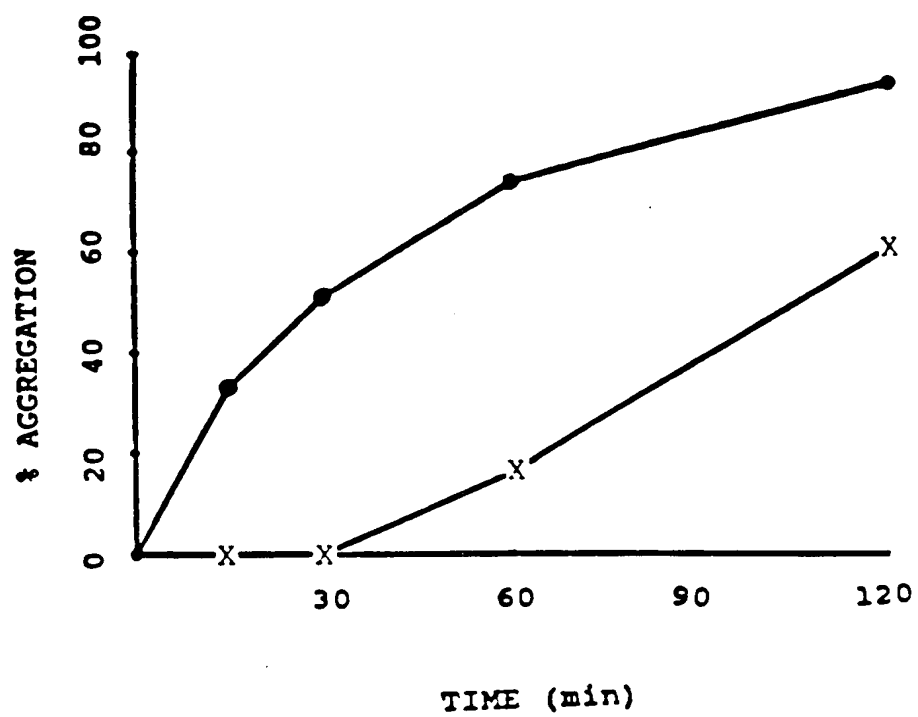
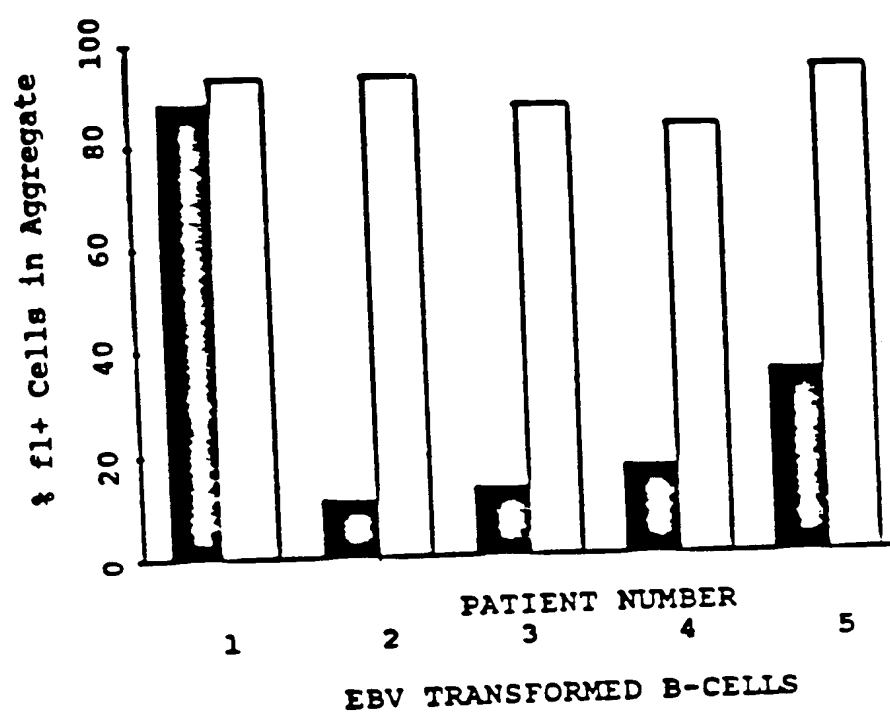


FIGURE 4



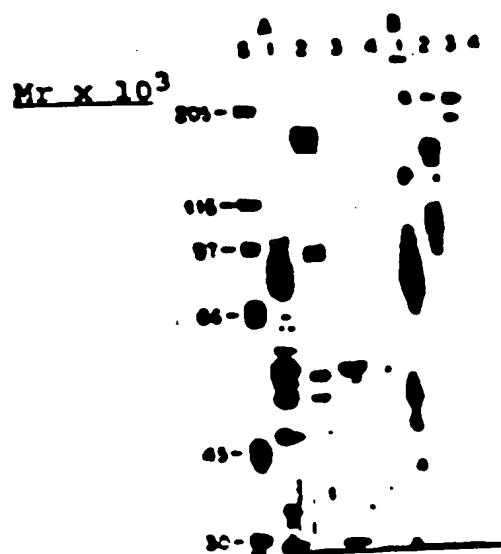


FIGURE 5

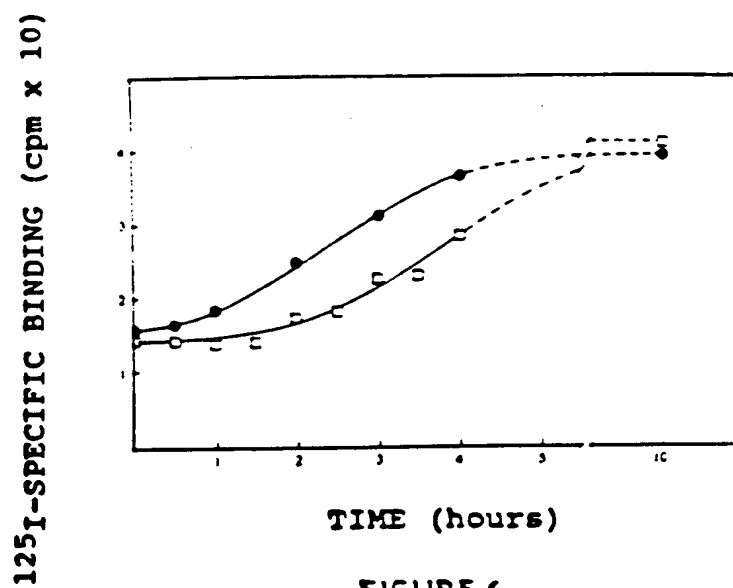


FIGURE 6

FIGURE 7

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^{125}I -SPECIFIC BINDING (CPM $\times 10^{-3}$)

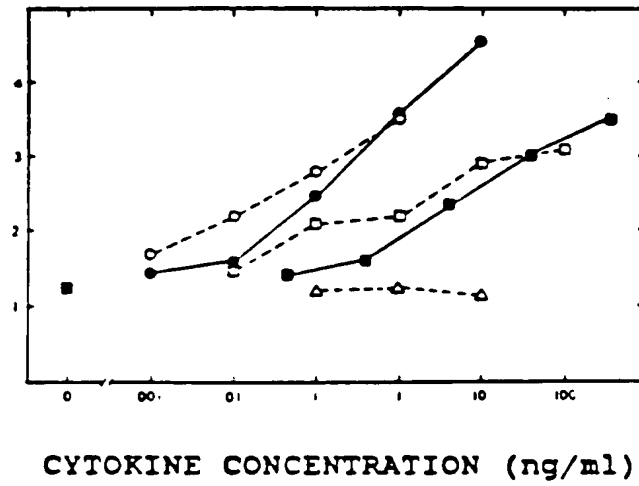


Figure 8

5' GGGGGGAGTGGAGGCTGAGCTCTCTGCTACTGAGAGTGGCAAGCTCAGGCTGGCT 57

ATG GCT CCG AGC AGC CCG CCG CCG CTG CCG GCA CTC CTG GTC CTG CTC GGG GCT CTG TTC CCA GGA CTT GGC AAT GGC CAG ACA TCT 147
M A P S S P R P A L P A L L V L L G A L F P G P G N A Q T S 3

GTG TCC CCG TCA AAA GTC ATC CTG CCG CCG GGA GGC TCC GTG CTG GTG ACA TCC AGC AOC TCC TGT GAC CAG CCG AAG TTG TTG GGC ATA 237
V S P S K V I L P R G G S V L V T C S T S C D Q P K L L G I 33

GAG ACC CCG TTG CTT AAA AAG GAG TTG CTC CTG CCG AAC AAC CCG AAG GTG TAT GAA CTG AGC AAT GTG CAA GAA GAT AGC CAA CCA 327
E T P L P K K E L L L P G N N R K V Y E L S N V Q E D S Q P 63

ATG TCC TAT TCA AAC TCC CTT GAT GGG CAG TCA ACA GCT AAA ACC TTC CTC AOC GTG TAC TGG ACT CCA GAA CCG GTG GAA CTG GCA CCG 417
M C Y S N C P D G Q S T A K T F L T V Y W T P E R V E L A P 93

CTC CCG TCT TGG CAG CCA GTG GGC AAG AAC CTT ACC CTA CCG TCC CAG GTG GAG GGT GGG GCA CCG CCG GGC AAC CTC ACC GTG GTG CTG 507
L P S W Q P V G K N L T L R C Q V E G G A P R A N L T V V L 123

CTC CCG GGG GAG AAG GAG CTG AAA CCG GAG CCA GCT GTG GGG GAG CCG GCT GAG GTC AGC ACC AGC GTG CTG GTG AGC AGA GAT CAC CAT 597
L R G E K E L K R E P A V G E P A E V T T T V L V R R D H H 153

GGA GGC AAT TTC TCC TCC CCG ACT GAA CTG GAC CTG CCG CCG CAA GGG CTG GAG CTG TTT GAG AAC ACC TCC GGC CCG TAC CAG CTC CAG 687
G A N F S C R T E L D L R P Q G L E L F E N T S A P Y Q L Q 183

AOC TTT GTC CTG CCA GGC ACT CCG CCA CAA CTT GTC AGC CCG CCG GTC CTA GAG GTG GAC AGC CAG GGG AOC GTG GTC TGT TCC CTG GAC 777
T F V L P A T P P Q L V S P R V L E V D T Q G T V V C S L D 213

GGG CTG TTC CCA GTC TGG GAG GGC CAG GTC CAC CTG GCA CTG GGG GAC CAG AGC TTG AAC CCG ACA GTC AOC TAT GGC AAC GAC TCC TTC 867
G L F P V S E A Q V H L A L G D Q R L N P T V T Y G N D S F 243

TGG GGC AAG GGC TCA GTC AGT GTG AOC GCA GAG GAC GAG GGC AOC CAG CCG CTG AOC TGT GCA GTA ATA CTG GGG AAC CAG AGC CAG GAG 957
S A K A S V S V T A E D E G T Q R L T C A V I L G N Q S Q E 273

ACA CTG CAG ACA GTG ACC ATC TAC AGC TTT CCG GGC CCG AAC GTG ATT CTG ACC AAG CCA GAG GTC TCA GAA GGG AOC GAG GTG ACA GTG 1047
T L Q T V T I Y S F P A P N V I L T K P E V S E G T E V T V 303

AAG TGT GAG GGC CAC CCG AGA GGC AAG GTG AOC CTG AAT GGG GTT CCA GGC CAG CCA CTG GGC CCG AAG GGC CAG CTC CTG CTG AAG GGC 1137
K C E A H P R A K V T L N G V P A Q P L G P R A Q L L L K A 333

AOC CCA GAG GAC AAC GGG CCG AGC TTC TCC TCC TCT GCA ACC CTG GAG GTG GGC GGC CAG CTT ATA CAC AAG AAC CAG ACC CCG GAG CTT 1227
T P E D N G R S F S C S A T L E V A G Q L I H K N Q T R E L 363

CGT GTC CTG TAT GGC CCG CCA CTG GAG AGG GAT TGT CCG GGA AAC TGG AOC TGG CCA GAA AAT TCC CAG CAG ACT CCA ATG TCC CAG 1317
R V L Y G P R L D E R D C P G N W T W P E N S Q Q T P M C Q 393

GCT TGG GGG AAC CCA TTG CCG GAG CTC AAG TGT CTA AAG GAT GGC ACT TTC CCA CTG CCG ATC GGG GAA TCA GTG ACT GTC ACT CCA GAT 1407
A W G N P L P E L K C L K D G T F P L P I G E S V T V T R D 423

CIT GAG GGC ACC TAC CTC TGT CCG GGC AGG AGC ACT CAA GGG GAG GTC ACC CCG GAG GTG ACC GTG AAT GTG CTC TCC CCG GAT GAG 1497
L E G T Y L C R A R S T Q G E V T R E V T V N V L S P R Y E 453

AIT GTC ATC ATC ACT GTG GTA GCA GGC GCA GTC ATA ATG GGC ACT GCA GGC CTC AGC AGC TAC CTC TAT AAC CCG CAG CCG AAG ATC AAG 1587
I V I I T V V A A A V I M G T A G L S T Y L Y N R Q R K I K 483

AAA TAC AGA CTA CAA CAG GGC CAA AAA GGG AOC CCG ATG AAA CCG AAC ACA CAA GGC AGC CCG CCG TGA AACTATCCGGGACAGGGGCTCTTCT 1683
K Y R L Q Q A Q K G T P M K P N T Q A T P P * 505

GGGCTTCCCATATTGGTGGCAGTGGTGGCACTGAACAGAGTGGAGACATATGCCATGCCAGCTACACCTACCGGGGGCTGGGAGGGGAGGACAGGGCATTTGCTCAGTCAGATA 1802
CAACAGCATTTGGGGCATGGTACCTGCCACACTAAACACTAGGGCAAGCATCTGATCTGTAGTGCACATGACTAAGCCAGAGAGGAGGAGCAAGACTCAAGACATGATGATGATGT 1921
TAAAGTCTAGGCTGATGAGAGGGGAGTGGTGGGGGAGACATAGGGCCACCATGAGGACATACAACTGGGAATCTGAACTTTGCTGCTATTTGGGTATGCTGAGGGCCACAGACTTA 2040
CAGAAGAAGTGGGCTCCATAGACATGTGTAGCATCAAAACACAAGGGCCACACTTCTGTAGGGATGCCAGCTTGGGCACTGCTGTCTACTGACCCCAAGCTTGTATGATATGATTT 2159
ATTCAATTTGTTATTTTACAGCTATTTATTTAGTGTCTTTTATGTAGGCTAAATGAACATAGGCTCTCTGGCTCAGGGAGCTGCCAGTCCATGTGCATTTCAAGGTCAACAGGTACAGT 2278
TGTACAGGTTGTACACTGCAGGAGAGTGGCTGGCAAAAAGATCAATGGGGCTGGGACTTCTCATTTGGGCAAGCTGGCTTTTCCCAAGAGGAGTGTATTTTCTATGGCCACAAAAGCAC 2397
TATATGGAGTGTATTTGTTTACAGGTTTACAGAGATTACCCAGTGAAGGCTTATTTCTGCTTCCGCAAACTGACACTTTGTGTAGGCACTTCCCAAGCTTCCATATTTCTGCGAC 2516
TGTTTACATGACACTCAGGGCTCATGTTCTGGACATGAGTGGCCAGGGATATGGCAAGCTATGGCTTGTCTCTTGTCTGTTTGCATTTCACTGGGAGCTTGCATATTTGCAGCT 2635
CAGTTTCTGCTGAGTGTAGTGGGCTTCCCAAGCAGTGGGAGGGGGGCAAGGATTTGGAGGACTTCCCTGCCAGCTTTGGAGGGTCAITGGGGTGTGTGTGTGTGTATGTGTAGACA 2754
AGCTCTGCTCTGTCAACCGGCTGGAGTGGTGGCAATCATGGTTTCACTGAGTCTTGAAGCTTTTGGGCTCAAGTGTATCTTCCCACTTCAAGCTTCTGAGTGTGGGACCATAG 2873
GCTCAACACCACTGGCAATTTGATTTTTTTTTTTTTCAGAGAGGGGCTTCCCAACTTGGGAGCTTCTTGTGTGTATTAATAAAGCTTCTCACTGCCAAAAA 2992
AAAAAAAAAAAAAAAAAAAAAAAAAAAAA 3023

A.

ICM-1

1-10

82-1

140

D3 186-2

04 285-3

MEM

A

8

U

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6

8

HC204-1 291-386 (D4)

REC- 317-124 (TMI)

15014326/TC 2004

U

FORM 100-1 (2-7-79)

1-4471 69-163 (WZ)

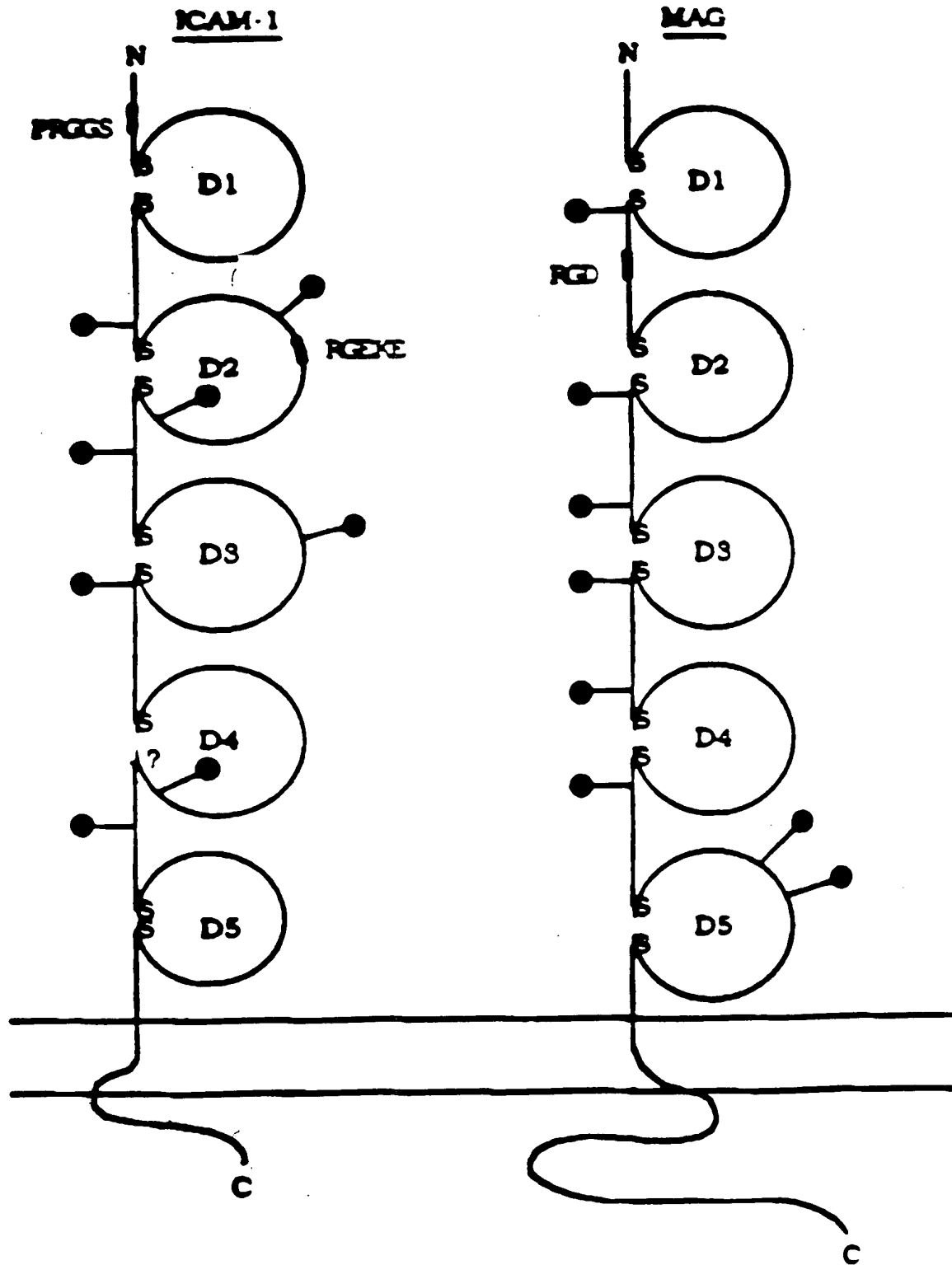
NCAM 206-292 (D3)

D.

ICM-1 192-282 (D3)

[illegible]

ICAC H
230-318 (D3)



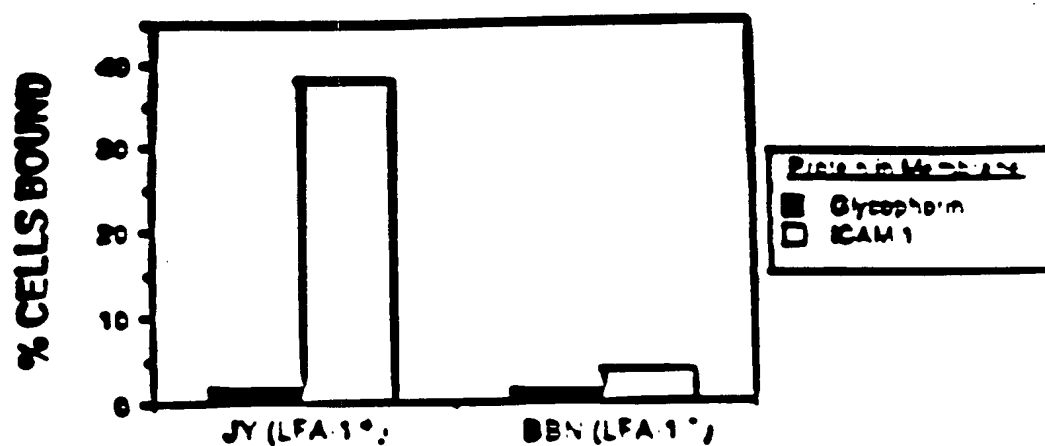


Figure 11 LFA-1 positive EBV-transformed B-lymphoblastoid cells bind to ICAM-1 in planar membranes.

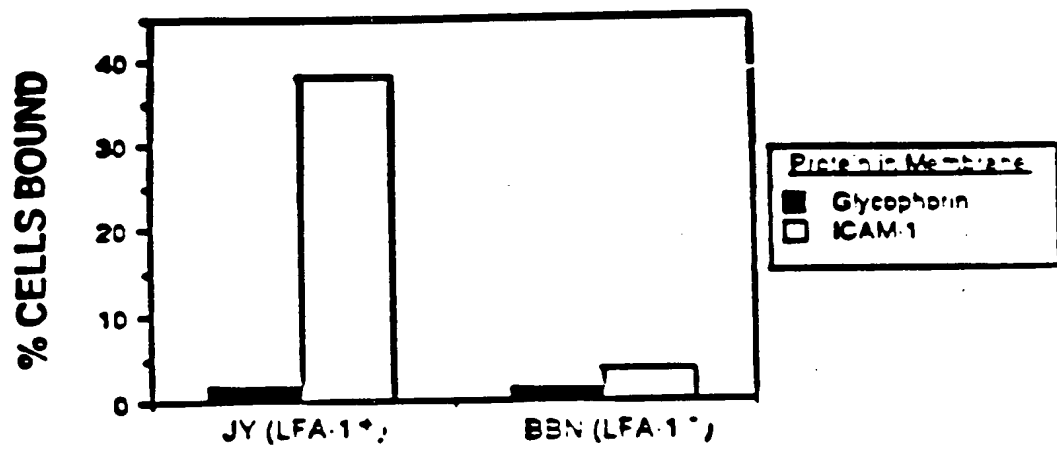


Figure 12 LFA-1 positive EBV-transformed B-lymphoblastoid cells bind to ICAM-1 in planar membranes.

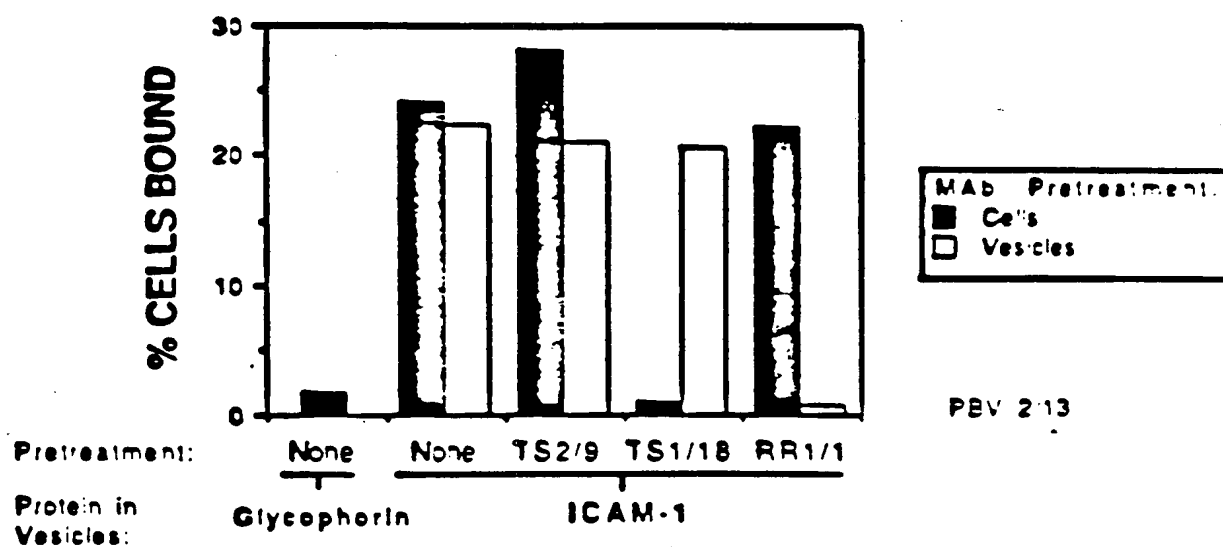


Figure 13 Inhibition of binding of JY B-lymphoblastoid cell binding to ICAM-1 in plastic-bound vesicles by pretreatment of cells or vesicles with monoclonal antibodies.

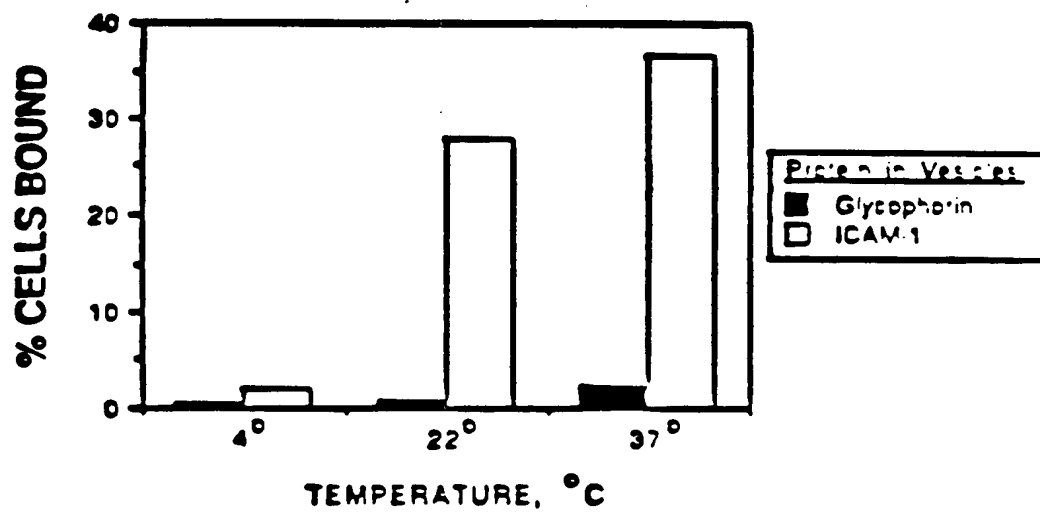


Figure 14 Effect of temperature on binding of T-lymphoblasts to ICAM-1 in plastic-bound vesicles.

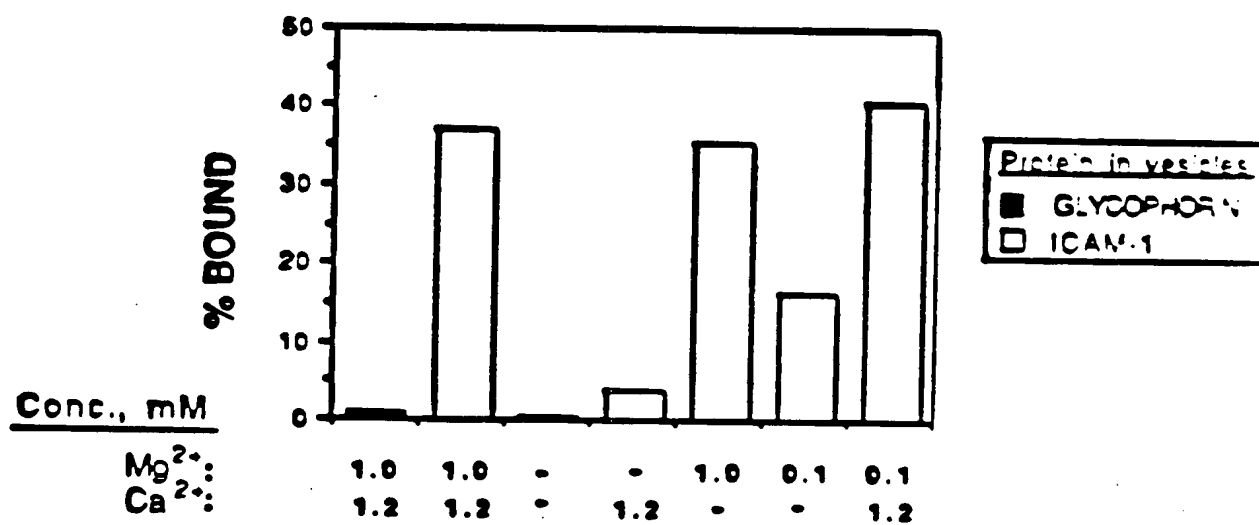
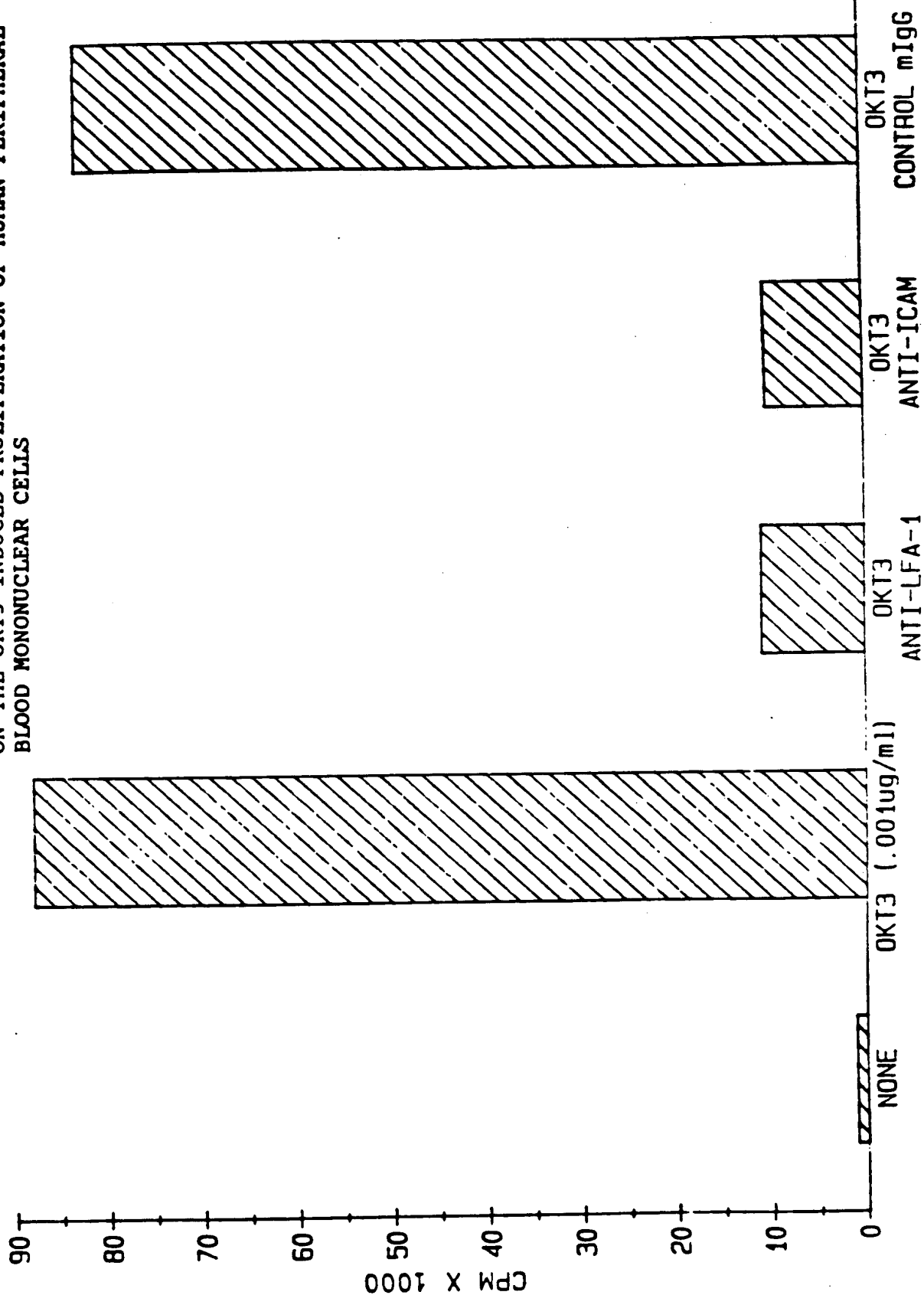


Figure 15 Divalent cation requirement for binding of T-lymphoblasts to ICAM-1 in plastic-bound vesicles.

FIGURE 16 THE EFFECT OF ANTI-ADHESION ANTIBODY
ON THE OKT3 INDUCED PROLIFERATION OF HUMAN PERIPHERAL
BLOOD MONONUCLEAR CELLS



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FIGURE 17 THE EFFECT OF ANTI-ADHESION ANTIBODY
ON THE CONCAVALIN A INDUCED PROLIFERATION OF HUMAN
PERIPHERAL BLOOD MONONUCLEAR CELLS

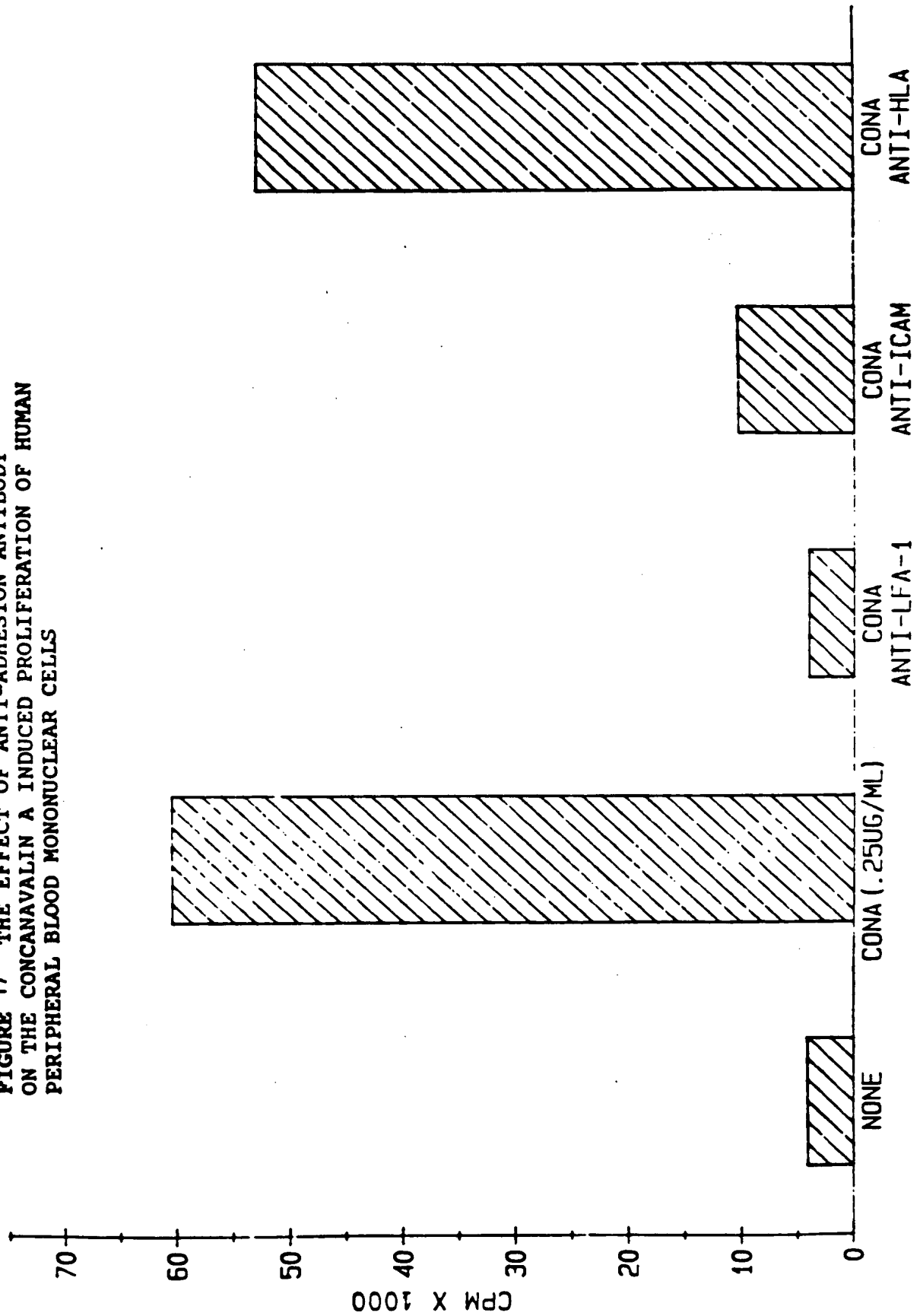
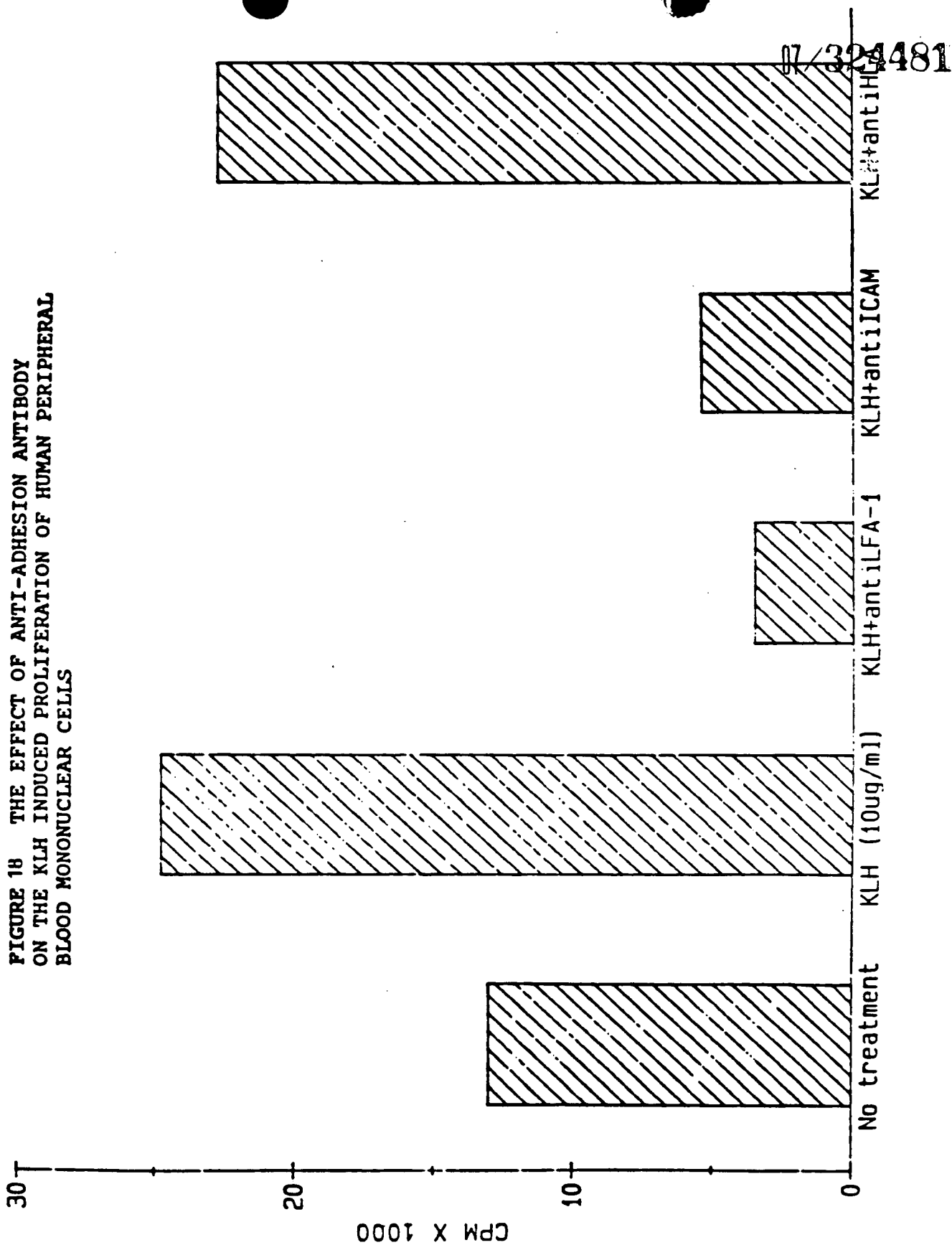


FIGURE 18 THE EFFECT OF ANTI-ADHESION ANTIBODY
ON THE KLH INDUCED PROLIFERATION OF HUMAN PERIPHERAL
BLOOD MONONUCLEAR CELLS



**FIGURE 19 THE EFFECT OF ANTI-ADHESION ANTIBODY
ON THE TETANUS TOXOID INDUCED PROLIFERATION OF HUMAN
PERIPHERAL BLOOD MONONUCLEAR CELLS**

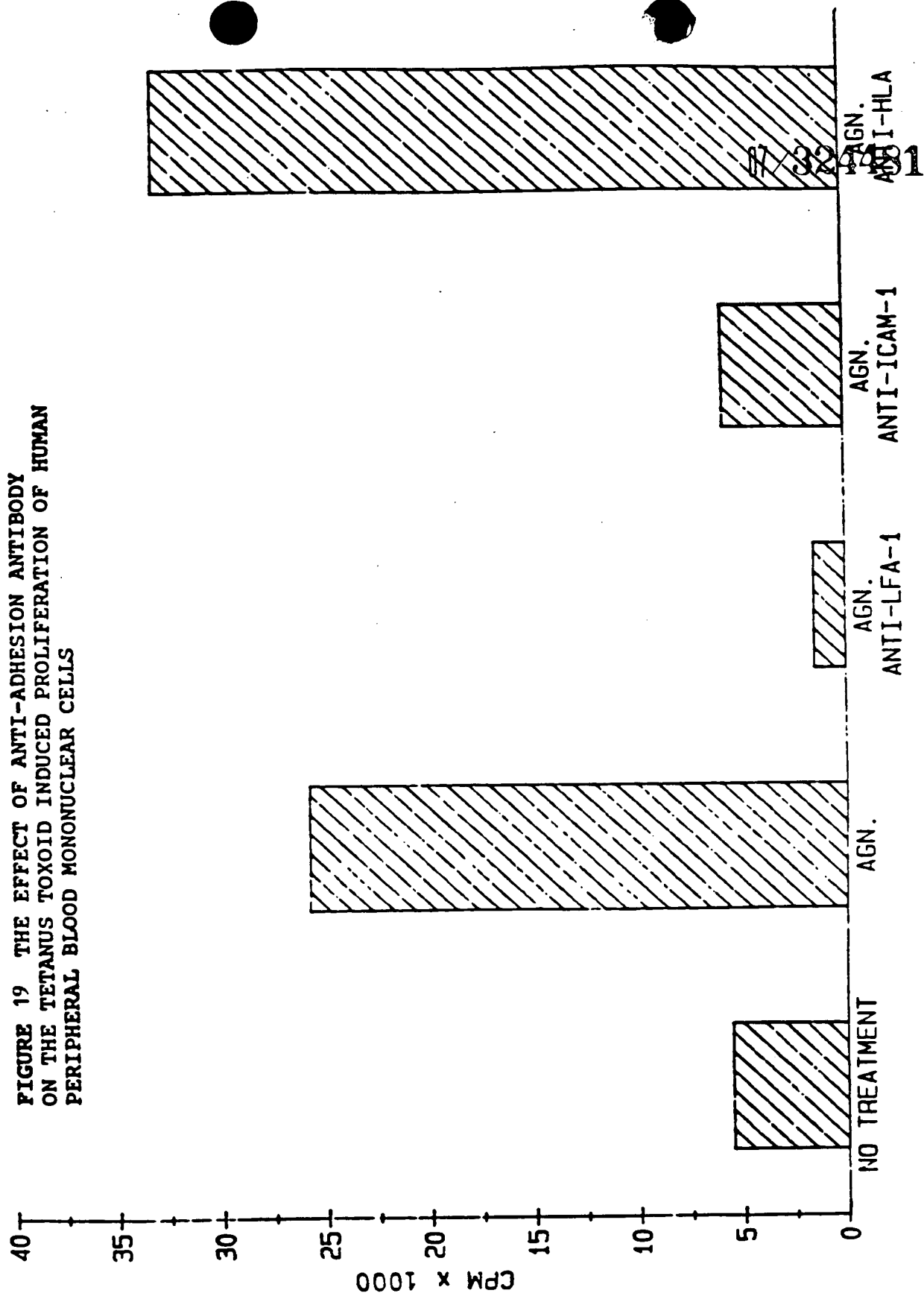


Figure 21
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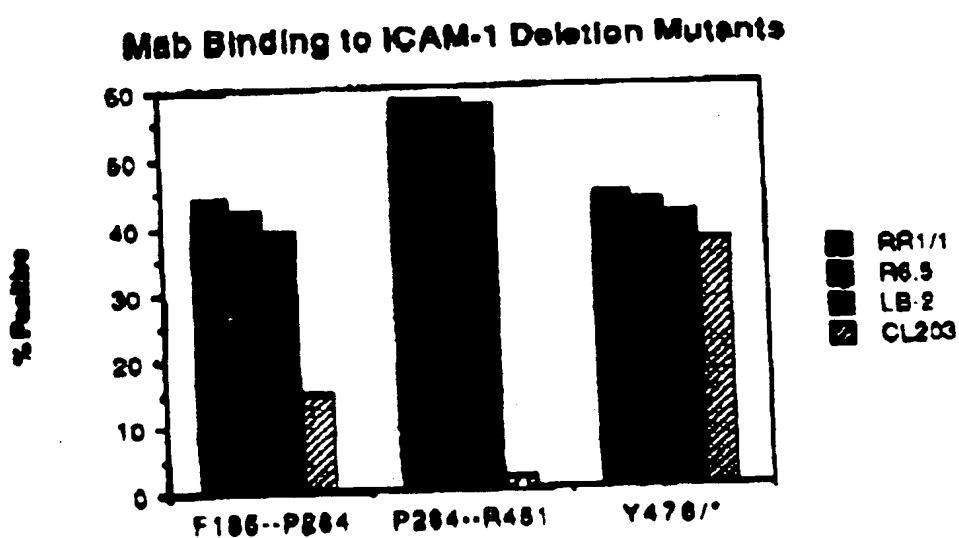


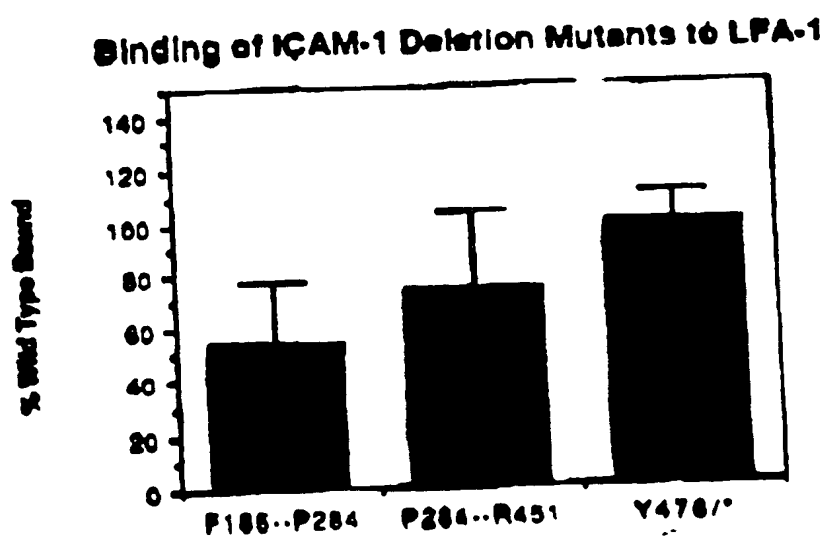
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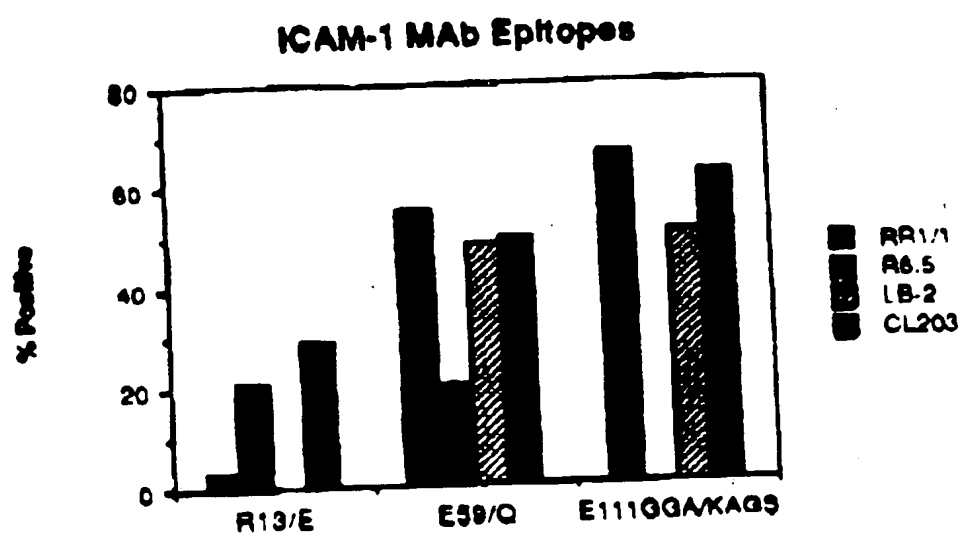
Figure ~~23~~ ~~24~~ 23

Figure ~~24~~ ~~25~~ ~~26~~ 24

Binding of ICAM-1 Domain 2 Mutants to LFA-1

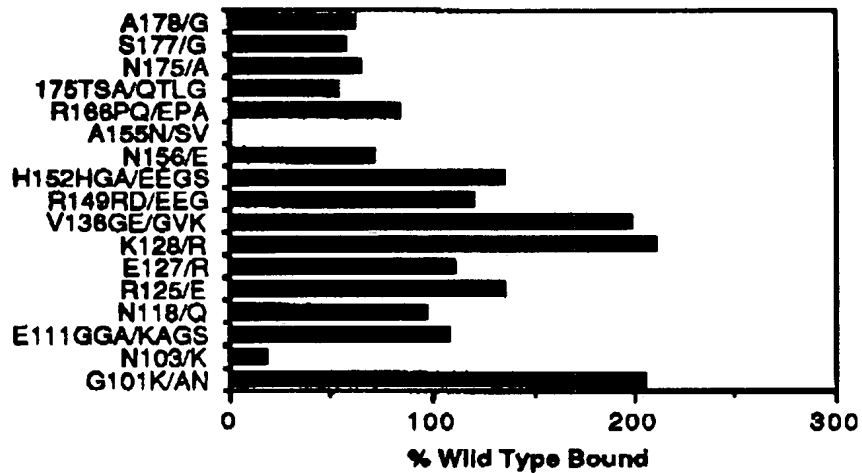


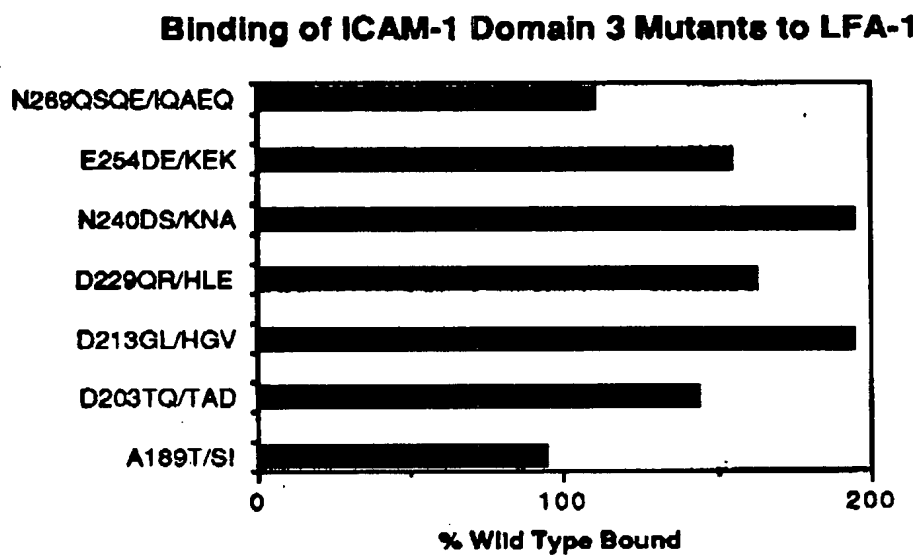
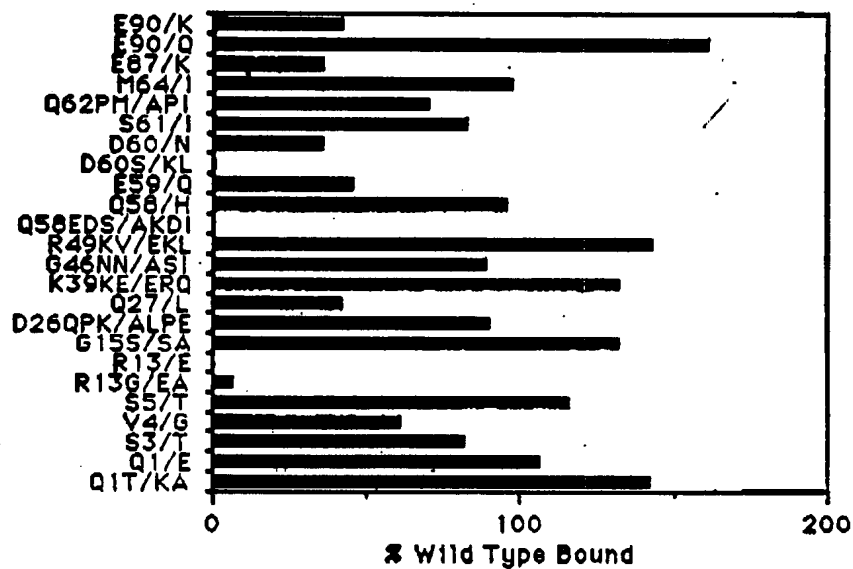
Figure ~~24~~ 25

Figure ~~26~~ ~~25~~ 26

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Binding of ICAM-1 Domain 1 Mutants to LFA-1



ICAM Amino Terminal Domain Homology

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ICAM-2 EVHVRPKLAVSQR-SLEVNCST
 mu ICAM-1 QVSIHPREAFLPQGGSVQVNCSS
 hu ICAM-1 QTSVSPSKVILPRGGSVLVT CST
 KA AGL EA E

TCNQPEVGGLETSL-NKILLDE
 SCKEDLSLTGLTQWLKDELESG
 SCDQFKILGIFTPLPKKELLIP

QAQWKHYLVSNISHDITVLOCHF-TCS
 PNWKL-FELSEIGEDSSP-CALENCG
 GNNRKVYELSNVQEDSQPMCY-SNCP
 AKDI
 H KL
 N

CKQESMNSNVSVYQPPRQVILT
 TVQSSASATITVYPFPESVELR
 DGOSTAKTFLT VYWTPE RVELA
 NGEL K
 H

Figure ~~26~~ 27